



REPLACEMENT SHEET

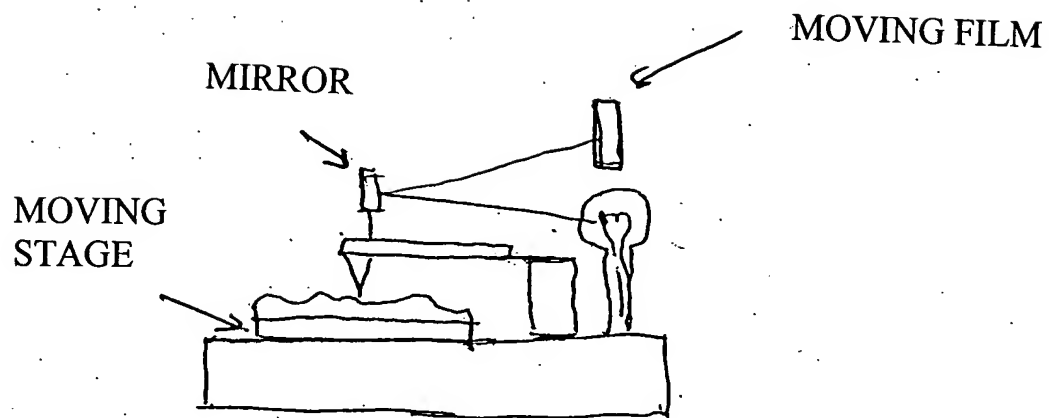


FIGURE 1

REPLACEMENT SHEET

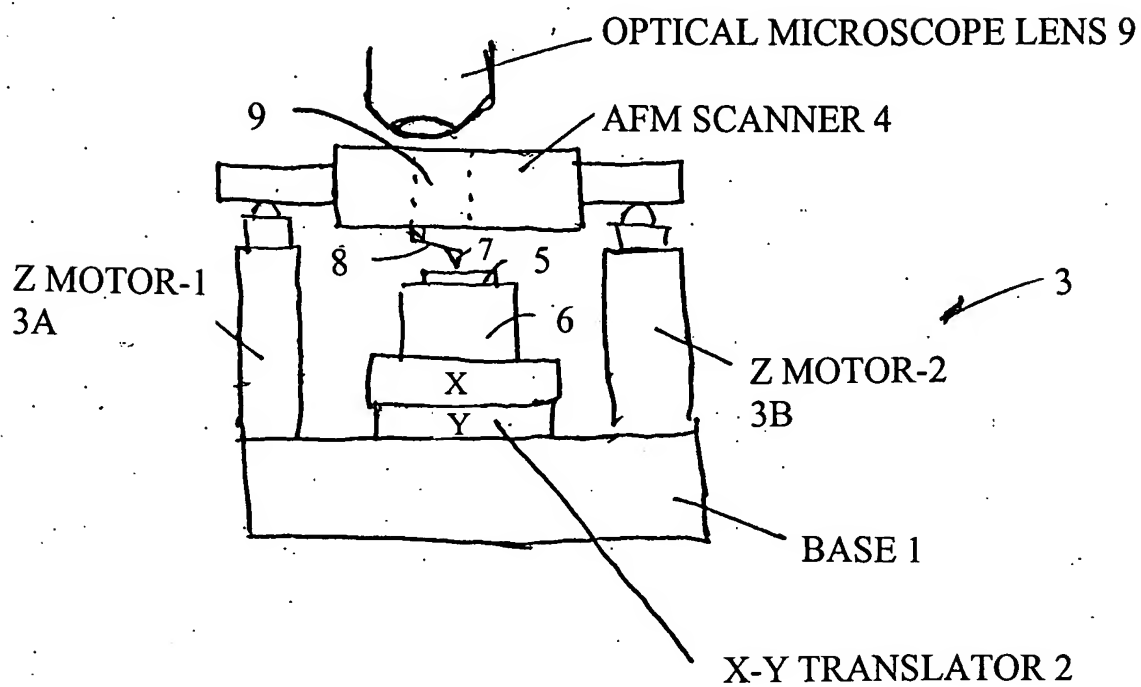


FIGURE 2

REPLACEMENT SHEET

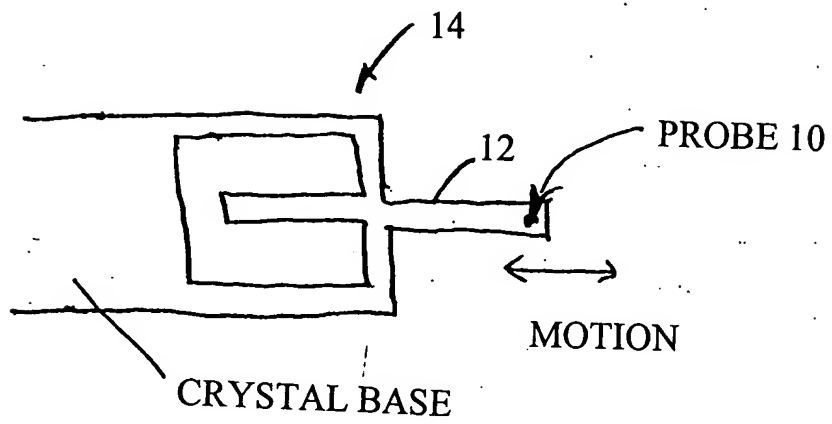
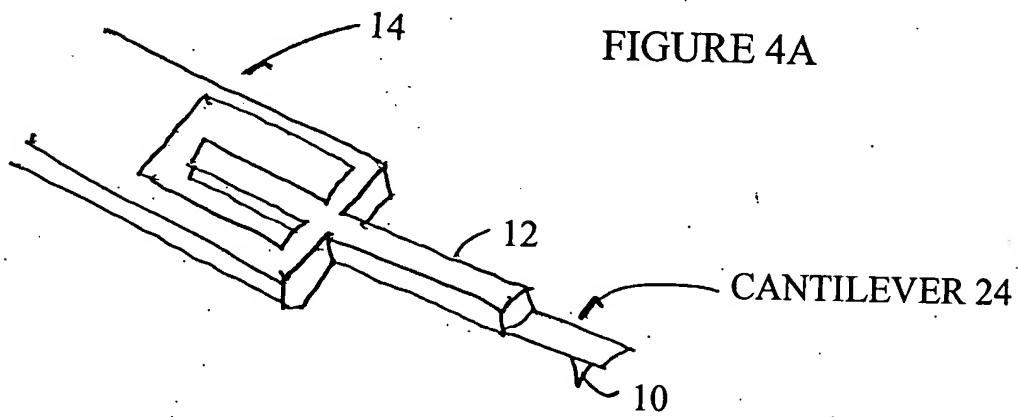
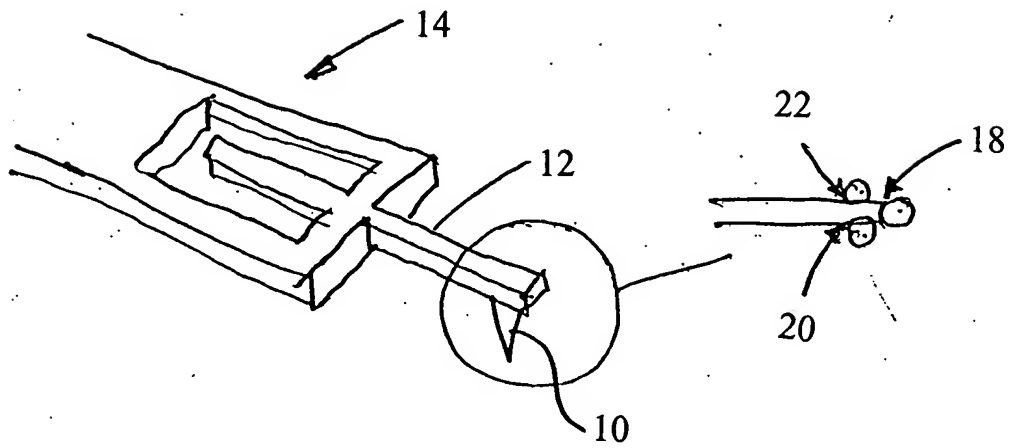


FIGURE 3

REPLACEMENT SHEET



REPLACEMENT SHEET

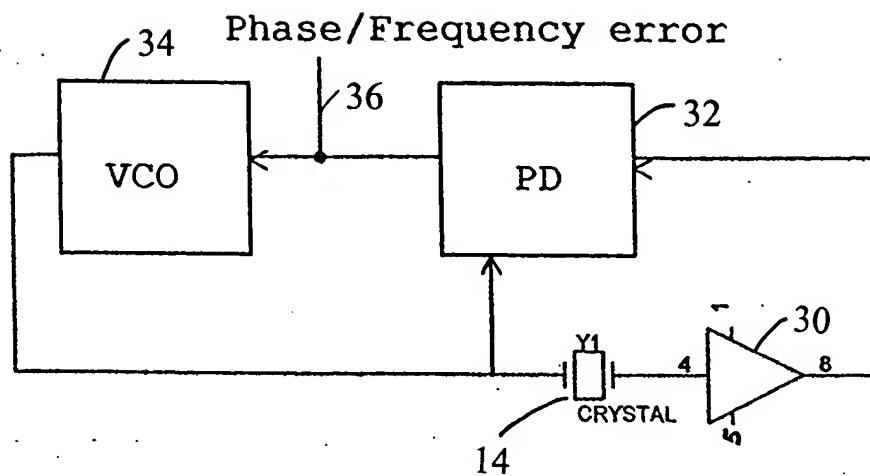


FIGURE 5A

REPLACEMENT SHEET

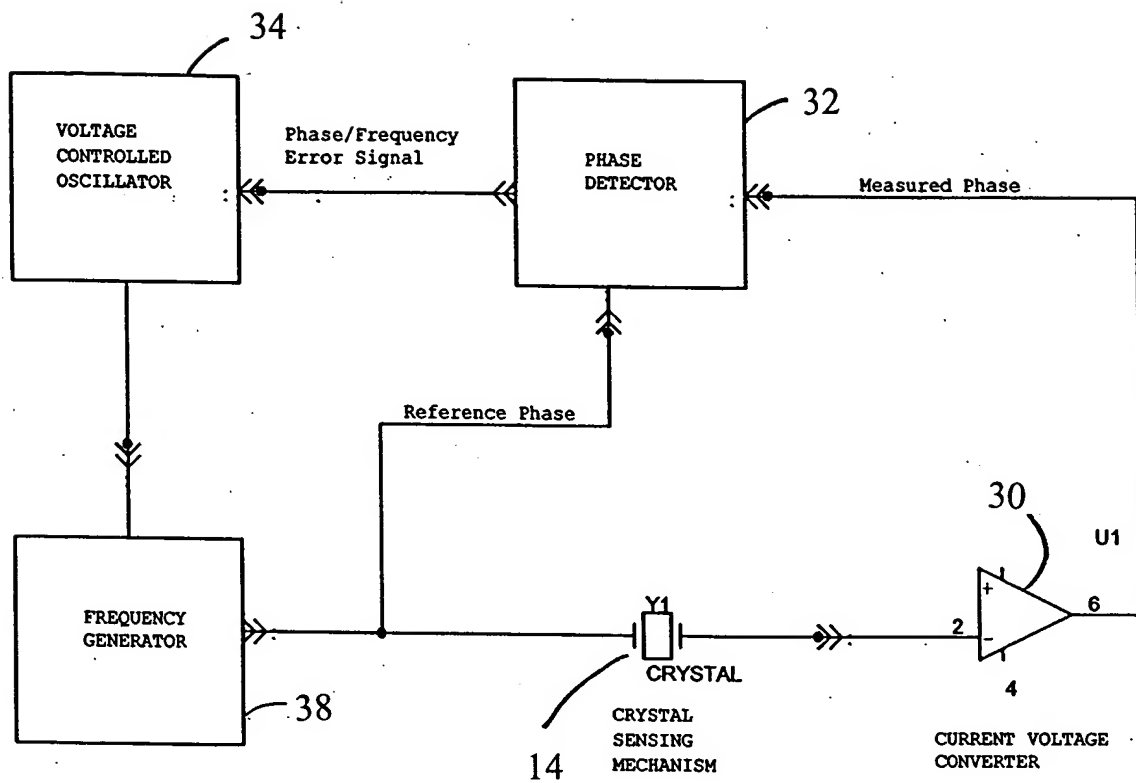


FIGURE 5B

REPLACEMENT SHEET

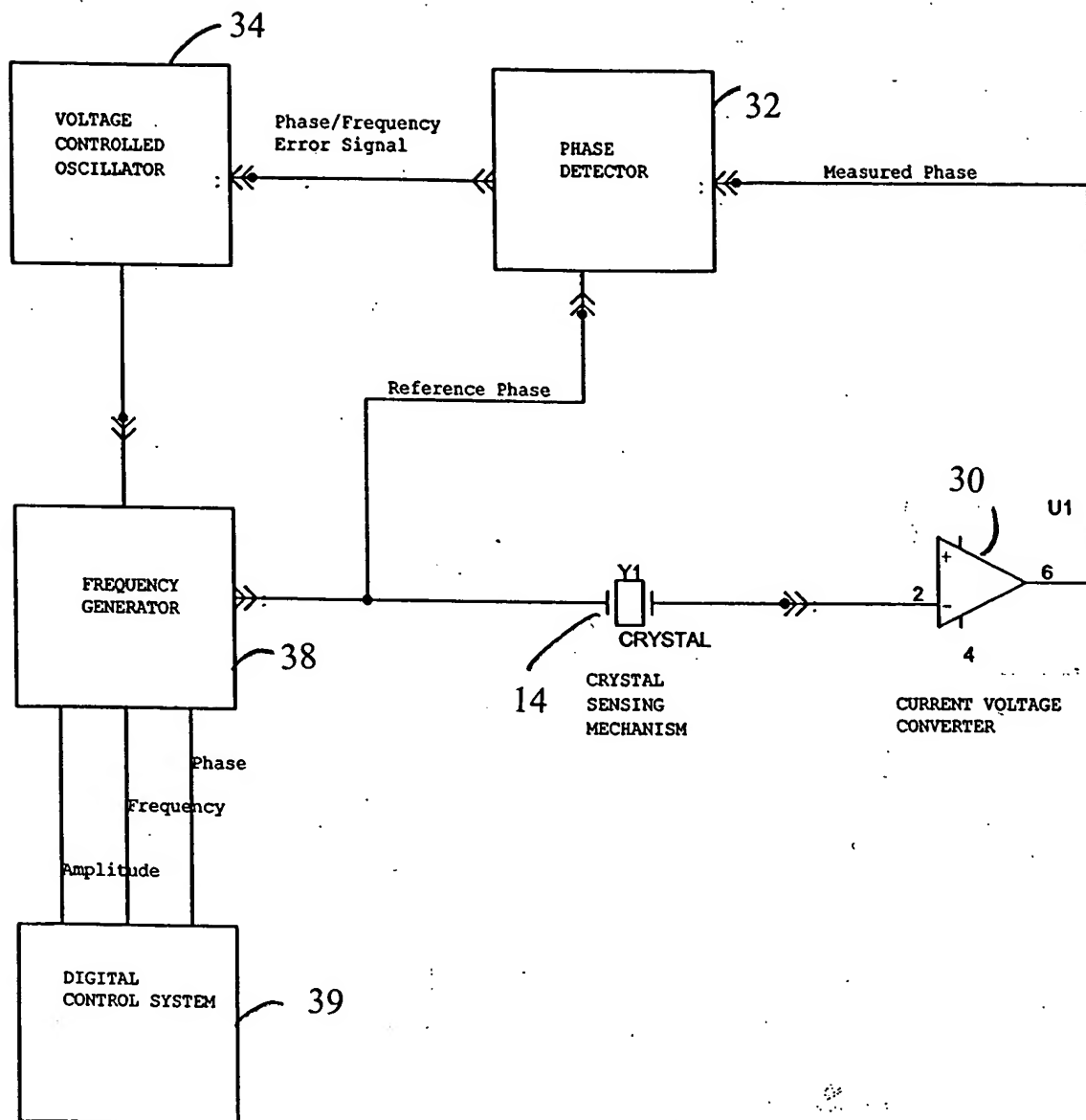


FIGURE 5C

REPLACEMENT SHEET

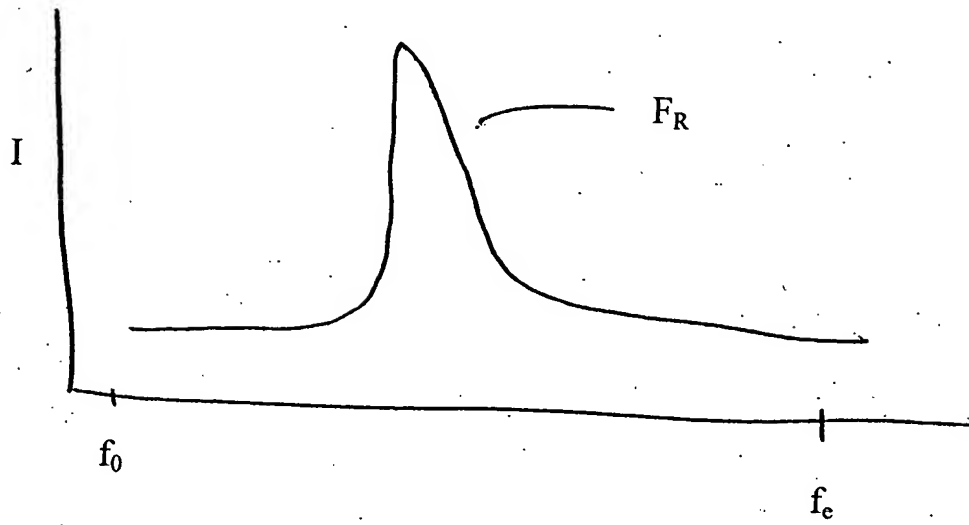


FIGURE 6

REPLACEMENT SHEET

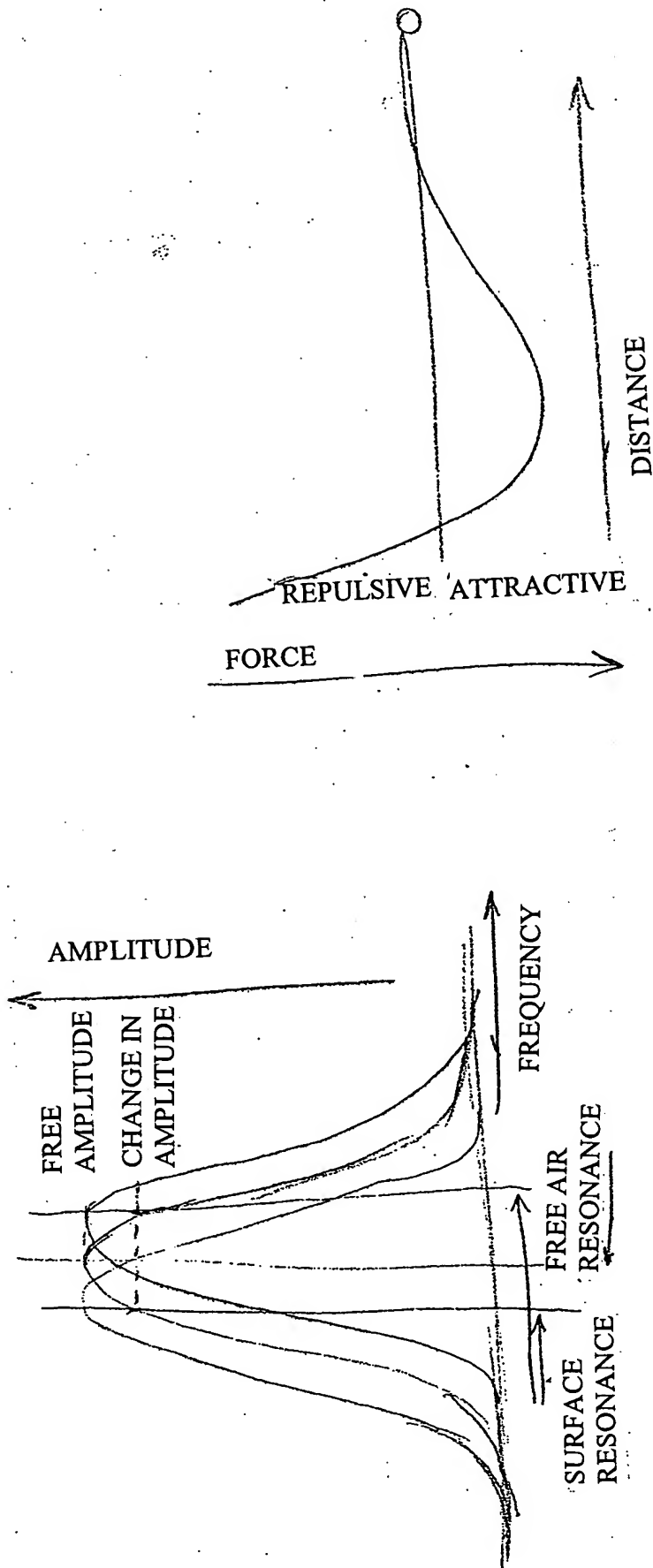
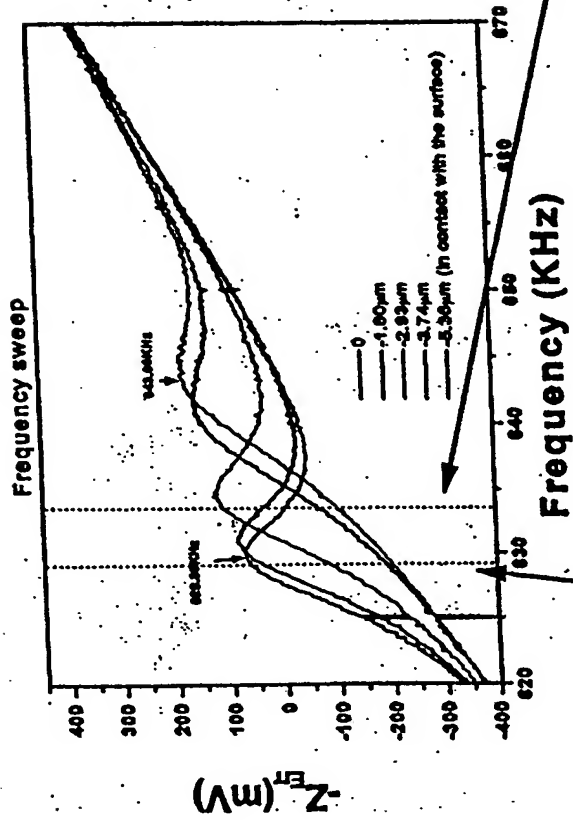


FIGURE 7



Total frequency shift is over 10KHz

Q factor can be about 2000.

Here We reduced the Q to about 200 in order to decrease the settling time of the crystal.

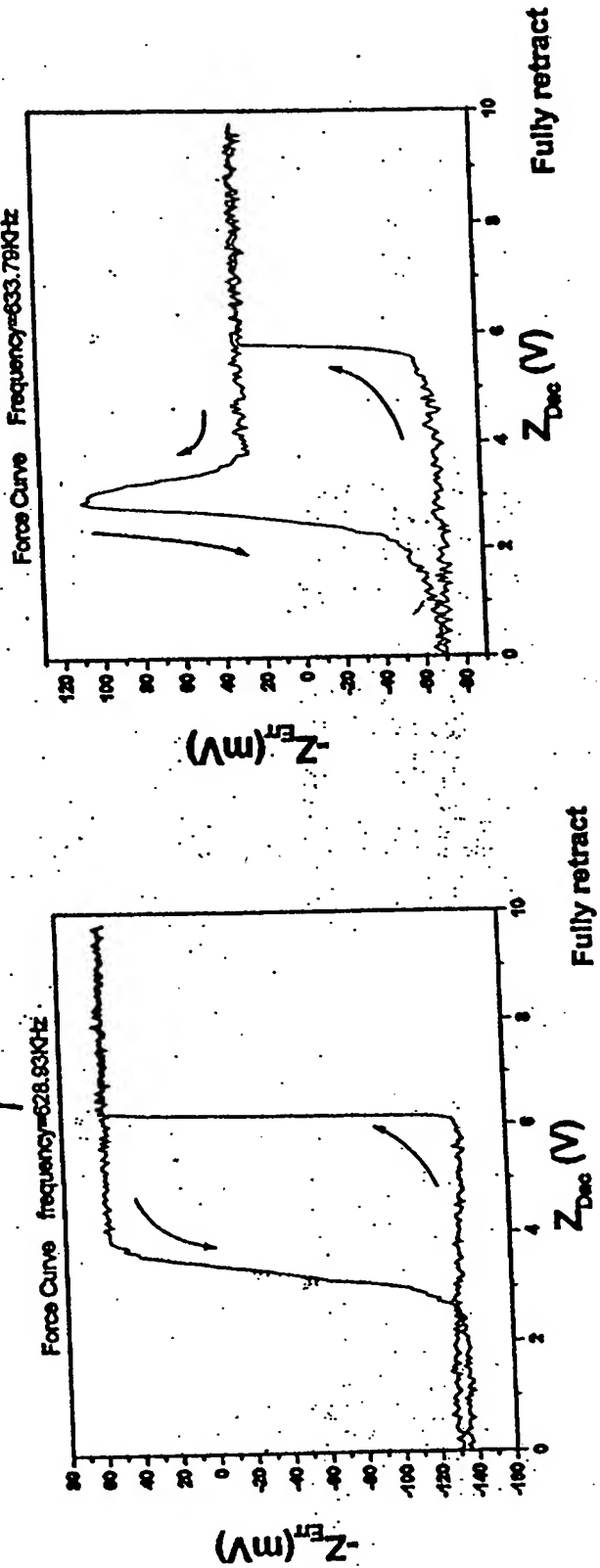


FIGURE 8

REPLACEMENT SHEET

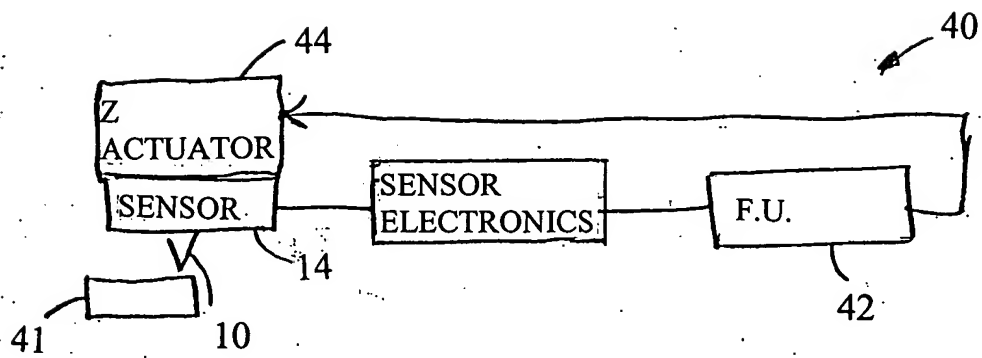


FIGURE 9

REPLACEMENT SHEET

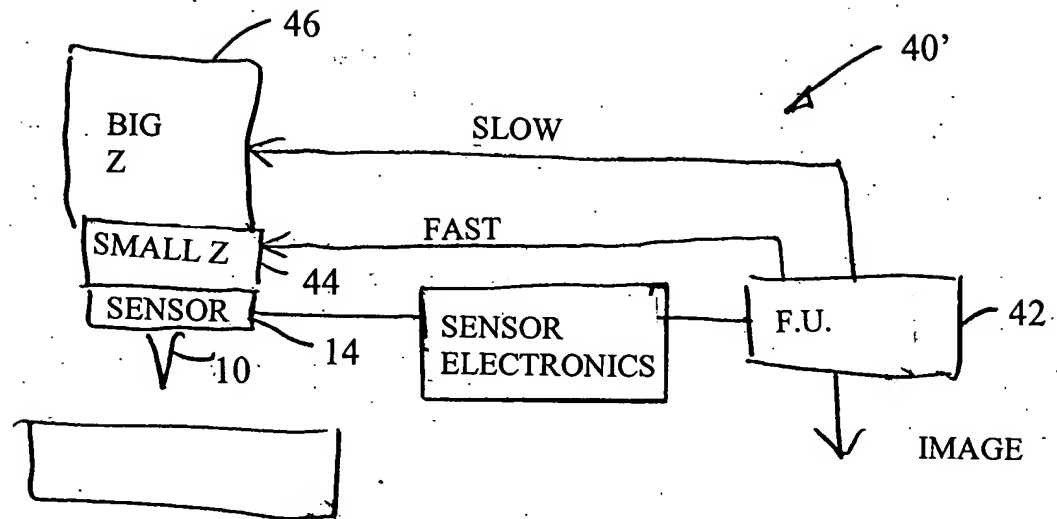


FIGURE 10

REPLACEMENT SHEET

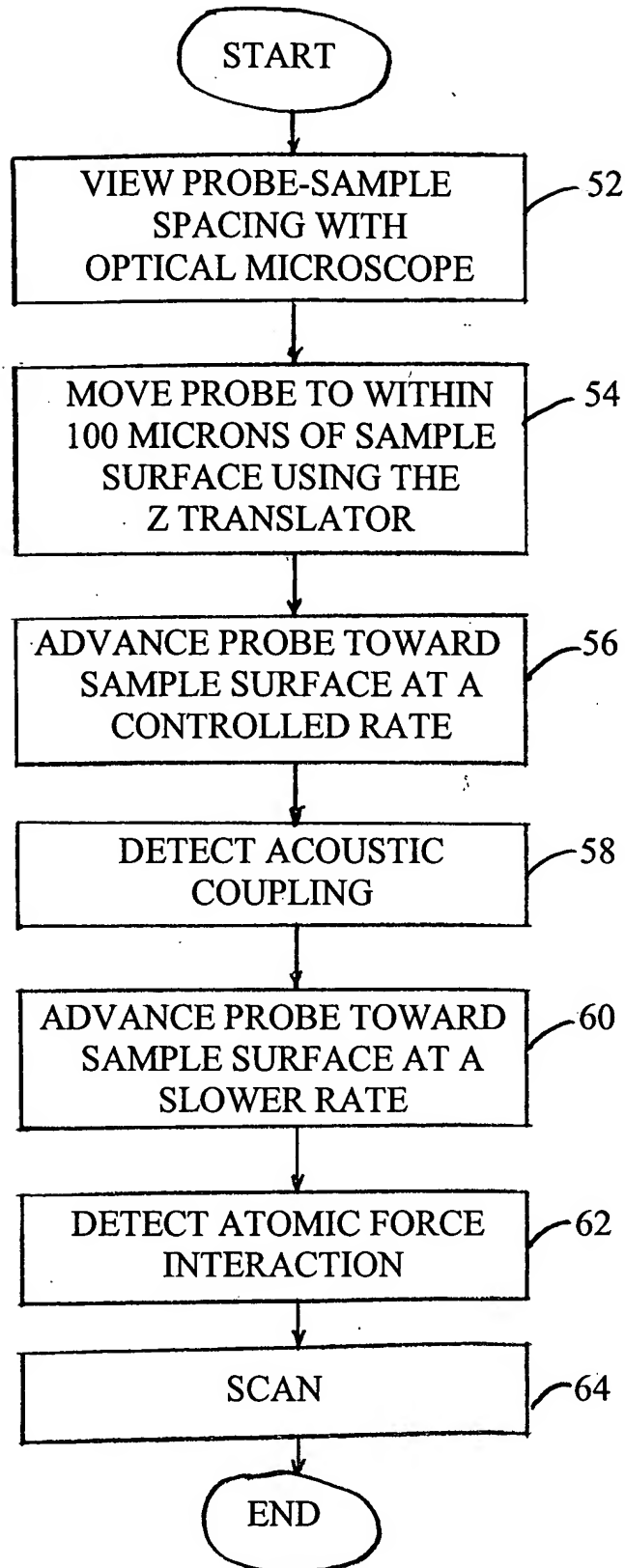


FIGURE 11